

**What is claimed is:**

1                   1.       A device for regulating the rotational speed of the driven  
2 rotor of a viscosity coupling (liquid friction coupling) of a motor vehicle cooling  
3 system, in particular the fan of the cooling system, having a setting means that  
4 controls the effective liquid flow supplied to the viscosity coupling in accordance  
5 with a setting signal, and having a regulator that supplies the setting unit with a  
6 setting signal depending on the deviation of a measured actual speed value from a  
7 target speed value, characterized in that the setting unit is supplied with the setting  
8 signal (10) by way of a switch unit (28) switchable between a first switch position  
9 in which the setting signal of the regulator (20) is supplied and a second switch  
10 position in which a target setting signal (GPWM) is supplied, and in that the switch  
11 unit (38) is switched automatically from the first switch position into the second  
12 switch position when no measured actual speed value (32) is present.

1                   2.       The device according to claim 1, characterized in that a  
2 control diagram (12) calculates a target speed setting signal (GPWM) from  
3 operating data (14, 16) of the motor vehicle, in that said target speed setting signal  
4 (GPWM) is fed firstly to the regulator (20) and secondly, by way of the switch unit  
5 (28) in its second switch position, to the setting unit.

1                   3.       The device according to claim 1, characterized in that an  
2 operation amplifier (34) ascertains the presence or absence of the actual speed  
3 signal (32) and switches the switch unit (28) accordingly.

1                   4.       The device according to claim 2, characterized in that an  
2 operation amplifier (34) ascertains the presence or absence of the actual speed  
3 signal (32) and switches the switch unit (28) accordingly.